

K6YQT

PAARA NEWSLETTER
VOLUME 52 NUMBER 4, April 2003

W60TX

PAARAgraphs



Celebrating 66 years as an *active* ham radio club—*Since 1937*
Newsletter for the Palo Alto Amateur Radio Association, Inc.



CALENDAR

- April.....4 **PAARA Meeting, 7:30**
Menlo Park Recreation Center
700 Alma Street, Menlo Park
- April.....9 **PAARA Board Meeting, 7:30**
Red Cross Bld., 400 Mitchell Ln., Palo Alto
- May.....2 **PAARA Meeting, 7:30**
- May.....7 **PAARA Board Meeting, 7:30**
- June.....6 **PAARA Meeting, 7:30**
- June.....11 **PAARA Board Meeting, 7:30**

The ARRL has a code practice:

URL <http://www.pepractice.com/CW/>
-Don KF6JMQ



PROGRAM

April 4, 2003 7:30 P.M.

Bob Wolbert, K6XX

enhance your equipment and ease your

"operating duties"

Join us for pre-meeting eyeball

at Su Hong Restaurant, 1039 El Camino Real, Menlo Park

Food will be served at 6:00 sharp, so guests will be on time for the PAARA meeting. Those arriving late will be responsible for their own order and bill.

—PAARA Radio NET every Monday evening at 8:30 P.M., local time—
on the 145.230 - 600 MHz repeater, PL tone off

Presidents corner



Dear members, Last month brought some busy events for the club. First we had an outstanding meeting with standing room only. I counted about 80 members and guests. **Cap Pennel, KE6EFE**, talked about his experience with APRS. Cap has seen the APRS network grow from a few stations to currently about 5000 - not bad.

I think the outstanding raffle prices really seem to help attendance. So far we have re-invested all raffle money into better and more prizes. There is a good chance that we will have another mobile radio AND a HT at the next meeting. So keep buying tickets.

Did you notice the wonderful cookies at the meeting? They are made fresh for every meeting by **Carolyn Gavin, WB6ABC**. I have a hard time not to overeat.

The Saturday after the meeting we had a VERY successful Fleamarket. Thanks to everybody who was there and helped. It really feels good to know that the workload can be distributed among our members. Again, thanks for coming forward and helping out.

See you at the next meeting! 73 de **Andreas, N6NU**

Attention Members and Visitors

April 4th Program:

Bob Wolbert, K6XX, will introduce you to electronic circuits and station accessories to enhance your equipment's performance, and ease your "operating duties." He is well known for his DXing and contesting, and has one of the most efficient stations on the air. Bob has working circuits for Icom, Yaesu, and Kenwood rigs, which will help you to enjoy your "on the air operating time" to it's fullest. Would you like a Simplified Operating Guide and performance enhancement for your Yaesu FT-817? How about an improved Amplifier Switching Circuit for an IC-706? These are a few examples of Bob's mastery over the complicated "bells and whistles" on our rigs. Bob will have time to answer your questions. Do not miss this demonstration and talk because it will increase your "operating enjoyment!"

~Jim, K6AK

Miscellaneous Dates

ELECTRONIC FLEA MARKET @ Foothill College

Second Saturday of month, March -October, 6 AM-2PM
 Perham Foundation Sponsorship has discontinued.
 The Flea Market will continue under a new sponsor.

April 12.....SPARK will sponsor

PAARA Palo Alto Amateur Radio Association

meets 1st Friday 7:30 each month, Net 145.230 each Monday 8:30,
 contact: Andreas Junge N6NU.....(650) 233 0843

FARS Foothills Amateur Radio Society

meets 4th Friday 7:30 each month,

contact: <http://www.fars.k6ya.org>.

NCDXC Northern California DX Club

meets 2nd Friday 7:30 each month, repeater for member info 147.360, Thur 8:00PM,
 contact: Bob Mammarella KB6FEC 408 729 1544.

NorCalQRP Northern California QRP Club

meets 1st Sunday each month,

contact: Jim Cates 3241 Eastwood Rd., Sacramento, CA 95821.

Perham Foundation (discontinued)

SPECS Southern Peninsula Emergency Communication System

meets each Monday 8:00PM on Net 145.27, 440.80 MHz. www.specsnet.org
 contact: Tom Cascone, KF6LWZ, 650-688-0441 specs@sympal.org

SCARES South County Amateur Radio Emergency Service

meets 3rd Thursday 7:30 each month, San Carlos City Hall.
 Net is on 146.445 [PL 114.8] & 444.50 (PL-100) 7:30 Monday evenings.
 contact:

SCCARRA Santa Clara County Amateur Radio Association

Operates W6UU repeater 146.385+ Nets: 2m, W6UU, 7:30 Mon; 10m,
 28.385, 8:00 Thur. meets 2nd Mon each month.

contact: Barbara Britten, K6DQEI at 293-3847

SVECS Silicon Valley Emergency Communications

Operates WB6ADZ repeater (146.115 MHz-)

contact: Lou Stierer WA6QYS 408 241 7999

WVARA West Valley Amateur Radio Association

operates W6PIY repeater 147.39+, 223.96, 441.875, 1286.2
 meets 3rd Wed every month.

contact: Glen Lokke Jr. KE6NBO at 408 971 8626, or glokke@pacbell.net

Disaster Services.

PALO ALTO CHAPTER. American Red Cross, www.paarc.org

400 Mitchell Lane

Meets 3rd Wed. each month 7:30PM.

HF, packet, BBS, ATV, OSCAR Gateway, NASA satellite.

contact: Mac Millian 650-688-0423, MACM@paarc.org

SAN JOSE CHAPTER. American Red Cross

contact: Scott Hensley KB6LOO, (408) 967 7924, FSHENSLEY@NOVELL.COM

VE Exams, 3rd Saturday each month, 10:30AM, 145.23 - PL=100Hz

Redwood City Main Library..Community Conference Room
 1044 Middlefield Road, Redwood City, CA

contact: Al WB6IMX@att.net.

Swap meet, LosPositas College, Livermore, 1st Sunday each month.

Contact: Cliff Kibbe (209) 835 6715 or Eliot Ross (925) 606 7710

(please send changes to PAARAgaphs editor: k6uro@arrrl.net)

Palo Alto Amateur Radio Association, Inc.

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Menlo Park, CA 94026

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 WebmasterCurt Kolovson, AE6EJ.....
ae6ej@arrrl.net

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(see "Calendar" for Board meeting times, visitors welcome)

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Submit material for PAARAgaphs by the 15th

Use WORD or rich text, ascii, .pub, or .jpg.

PAARA Website: www.paara.org

Instructions on how to subscribe to PAARA mailing list

Here are the steps in the long form:

- 1) go to <http://mailman.qth.net/>
- 2) click on: "To Subscribe to Lists Click Here!"
- 3) Find PAARA on list and click on it
- 4) enter your email address and pick a password
- 5) hit the "Subscribe" button

The short form of the instructions are:

- 1) go to <http://mailman.qth.net/> and follow the instructions.

Andreas, N6NU

PAARA WEB

Thanks to Andreas Junge, N6NU
 and
 Curt Kolovson, AE6EJ, Webmaster
 PAARA has a new web site. Check it out.

www.paara.org



PAARA HONORS

Vic Black AB6SO

by Terry Finn AF6TF

Do You Really Know This Experimenter?

This active member of our PAARA family is an avid experimenter and home brewer who come to us originally from the Appalachia Mountains area of Kentucky. Mr. DAVID VICTOR CALVIN BLACK was born on April 18, 1940. He claims that he was well ahead of the baby boomers and well behind the great depression!

We know this friendly face as our own **VIC BLACK, AB6SO**.

Vic's father was a circuit Methodist Minister who serviced seven Churches in the Appalachia Mountain area and called the now non-existent town of Bow, Kentucky, home for many years. In fact, Vic, his younger brother and both parents would travel from Bow to spend a week in the local Church of each area of the region. They would return home to Bow every eighth week. This was a rather economically depressed area so Vic's father would frequently be paid in fuel, chickens, farm food, etc., rather than in money.

Vic can remember not being around any other kids his own age while he was growing up until the family moved to Potomac, Illinois in 1946. His father had an opportunity to receive more education so he took advantage of that and moved the whole family with him. Vic attended grammar school in Potomac and enjoyed playing with his new friends until he was diagnosed with Perthe's Disease in 1950. A rare medical malady that affects the hip joint above the femur, this disease caused Vic to live in a wheel chair and on crutches for some time as a young boy. This disease ultimately caused Vic to have his right hip replaced in 2001.

In late 1950, Vic's father was transferred to Mountain View, California to take over the Methodist Church at that location. The change in climate was helpful to Vic and he immediately took to life in California. In 1954 Vic was a freshman at the Mountain View High School and became involved with a lot of students his own age that had parents

that were stationed at Moffet Field Naval Aviation Base and were being discharged from the service. Quite a number of these former military people were hams and had been hired by local businesses in the area. Some of those companies names are familiar, such as Eimac; Hewlett Packard; Varian Associates; Lenkurt, etc.

As a result of his friendships developed during that time, Vic sat for his first FCC test at 14 years of age, passed the exam and was assigned call sign **KN6IOW**. Vic can recall that the FCC exam was given only once a month in San Francisco at the FCC offices in front of the Field Engineer. His call sign and license was a one-year only, non-renewable, crystal control only certificate with a maximum power allowed of 75 watts. In 1955 Vic up-graded to Technician class and his new call sign became **K6IOW**.

Vic remembers that he went back up to the San Francisco FCC office to take the Morse code exam for his General class license, the day that his new technician license arrived in the mail. When he passed the code test, the FCC Field Engineer personally endorsed his license and up-graded it to General class on the spot, by hand. Needless to

say, we don't see that sort of thing today.

Between 1955 and 1961 Vic was a very active ham, primarily on 40 meters CW. He experimented with various types of antennas: mostly homebrew such as coke can ground plane 40-meter antennas. (Coke cans were made of steel back then). He also made rather useful rotatable dipoles out of bamboo poles using aluminum foil wrapping. Vic had read about the Japanese army using bamboo poles during the Second World War as antennas. They had used conductive silver paint on the bamboo poles that were cut from the jungles. That way, new antennas could be made as they moved along as the other antenna's

could be abandoned and would not slow them down when marching forward (or rearward).

During the 1957 school year, Vic was selected as an exchange student and had the opportunity to live with a family in France for three months. He already knew how to speak, read & write in French so it was a fun trip and adventure for him. Vic has a lot of knowledge and talents we don't know about!! While in France, Vic became rather interested in the sport of bicycle racing and it ultimately became his true extra curricular activity as he became the top official with the U.S. Cycling Federation. However, more on that later in this personal expose of **AB6SO**.

1958 saw Vic graduate from Mountain View High School
(Continued on page 32) Vic Black AB6SO



Vic AB6SO

Attention Members and Visitors:

Raffle Prizes

for the
March 7th PAARA Meeting:

THANK YOU FOR YOUR PARTICIPATION IN THE RAFFLES!

Each month has set a new record for ticket sales, and the extra money is added to the next month's prizes.

YOU ARE MAKING THE MEETINGS VERY EXCITING!



UNBELIEVABLE!
RECORD RAFFLE PRIZES FOR PAARA
NOT ONE BUT TWO RADIOS

IT IS TRUE!

Come try your hand at winning the

FIRST prize:

Icom IC-2100H

2 meter, 55W, FM Transceiver, green or amber display on rig as well as mic/keypad, with superior receiver IMD performance.

SECOND prize:

Icom IC-T2H

2 meter, 6W, HT.

Don't forget about the

THIRD, and FOURTH place raffle prizes!

Enjoy our fabulous speakers, free refreshments, chatting with your friends, and the chance to **take home an unbelievable prize.** See you at Round Table after the meeting! Kyle and I are having a lot of fun.

THANKS TO YOU!

~Jim.K6AK

Contact **Kyle, KG6MSK** for tickets

Want and For Sale ads in
PAARAgaphs
 are **FREE** to members

(Submit by e-mail or letter before the 15th of the month)

BADGES

to order one contact

Don Trask KF6JMQ

at next PAARA meeting or kf6jmq@arrl.net

Congratulations:

PAARA Raffle Prize Winners
March 7th 2003



1st Prize: Bob Bisio AE6BN
Yaesu FT-1500M, 2m HT

2nd Prize: Dave Platt AE6EO
 Tiny Trak 3 Kit, GPS HT interface

3rd Prize: Doug Teter KG6LWE
 MFJ mobile antenna

4th Prize: Cap Pennell KE6AFE
 Coax cable



photo KM6EP

More Dogs

PAARA Foothill Flea Market



photo KM6EP

The Crowd

Need a copy of your radio license ?

Have you ever had occasion to require a copy of your FCC amateur radio license and couldn't remember which safe and secret place you had stored or hidden it away in ?

Well, now, thanks to the good folks at the W5YI Report, there is a way to obtain a copy of your license. Although the copy may not be considered an 'official' license, it is obviously just as good as the original one sent out to you by the FCC.

Actually, the only 'official' license is the listing contained in the FCC's Amateur Service computer database. This printable copy indicates that it is a reference copy only and may not be used in place of the 'official' FCC original license. However, when you print out this copy, I think that you will be happy and impressed.

1) Point your web browser to the special FCC website as follows: <http://wireless.fcc.gov/uls/> *

2) Locate & click on the button in the middle of the page next to the word "search" that says "licenses".

3) Enter your license call sign in the box & on the next screen.

4) Click on your license call sign which will be underlined as a link.

5) Click on the "Reference Copy" link near the top of the page.

6) Print out the duplicate license.

~Terry Finn, AF6TF

**(I found "copy all" and pasting to a file produced a better quality print. Also while your at the site you can obtain a FRN number. ed.)*

PAARA March 7



Cap Pennel, KE6EFE

photo KM6EP

PAARAgaphs April 2003

Celebrating 66 years as an active ham radio club—Since 1937

(Continued from page 29) Vic Black AB6SO

and go on to attend the College of The Pacific, (now known as The University of The Pacific) located in Stockton, California. During the summers, one of the jobs that Vic held was working in the sheet metal shop for Hewlett-Packard. Vic loves to build things and experiment with radios and antenna's. Clearly this is something that has been going on all of his life. Vic transferred to Fresno State University for the years 1959 - 1960 - 1961. He majored in Electrical and Mechanical Engineering with a minor in Math. (No wonder he likes to play with antennas)!!!

Vic went to work for Vendorlator, a division of Vedno, Inc., in Fresno, making modern Coke and soft drink vending machines, but missing the Bay Area, he ultimately moved back and took a job with Hewlett-Packard in their design drafting division for electrical and mechanical manufacturing. He actually worked in all three major divisions of Hewlett-Packard over the years as well as many others now defunct companies that were all located here in the Silicon Valley. He managed to spend time with such notable names as Varian Associates and Watkins-Johnson as well. Over the years, Vic has worked in such diverse areas as: microwave electronics including tubes and oscillators; computer design for ease of manufacture; scanning electron microscopes; sputter coaters in the integrated circuit manufacturing process; engineering checking, (of other peoples designs & completed work) as well as telecommunication test equipment that was sold to the phone companies and robotics experimentation. This paragraph represents over forty years of high tech knowledge and hands on experience in the real world of electronic manufacturing, all in the Silicon Valley. What an incredible resource!! And he is a member of our Ham Club!!

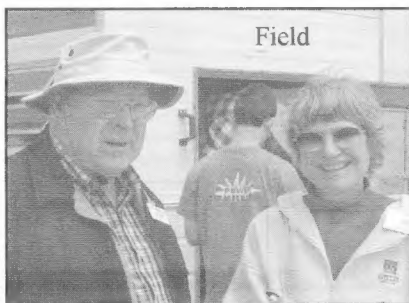
Vic has not been employed since November of 2001, when he had his hip replacement surgery. He was laid off from the robotics company that he was working for in 2002 as they downsized to one third of their earlier size. In fact, Vic wants you to know that he is looking for work right now as an engineering change order analyst and design checker in the manufacturing process.

Between 1961 and 1965 Vic's ham activities dropped off and he let his license lapse. He was much too busy racing bicycles as he found that it was the perfect exercise for him, as it did not put as much impact loading on his hip. One must remember that Vic could not exercise as normal between the ages of 10 and 21 years of age. In 1975 Vic became the senior official of the U.S. Cycling Federation where he was responsible for the many official bike-racing events throughout the western U.S. Vic himself was the actual race announcer over the public address systems at these races for over 17 years. The famous bike racer, Greg LeMond, is believed to have gained his interest in bicycle racing while he watched the bike races in Carson City, Ne-

vada, which were officiated by Vic and observed by over 20,000 spectators every year. Mr. Greg LeMond went on to win the Tour de France on five separate occasions.

In 1992 he was asked by some engineering friends in San Jose to assist them with their hobby of hang gliding. As it turned out, there were over 400 members of a group known as "Wings of Rogallo", and many of those members were hams as well as pilots. Vic and others had to man vehicles that basically chased the hang glider pilots to their final landing places. They communicated via two meters, so Vic became interested in ham radio all over again. In fact, Vic says that he actually missed out on 30 years of ham radio fun due to his work experiences and other demands. So, he has some catching up to do!!

He took the General class and 13 wpm code test in 1992 and was issued call sign: **KD6KWA**. In 1993, Vic upgraded to advanced and extra and was issued call sign **AB6SO** that is what we know him as today.



Vic lives in Redwood City and rents rooms in his large residence to engineering students and starving engineers. He has a 40 meter folded di-pole on his roof, in fact, flat on his roof. However, most communication now is mobile from his car. He really likes QRP operation and uses his FT 817 at 3 watts from his mobile whip antenna (an outbacker perth) and has worked 70 Countries in the last 3 months with that combination of equipment. Vic really likes to play with antennas and has been experimenting lately with a home brew system that incorporates the racks removed from a refrigerator. You will hear more about this project at a PAARA club meeting.

Vic Black joined PAARA in 1992 and has been active ever since. He has served our Club as President; Vice-President; Secretary; Member of the Board of Directors, and is currently the Membership Committee Chairperson. Who do you think sends out the nice invitations each month to the new hams who are potential new club members?

In 1989 Vic underwent major surgery and had a triple heart by pass operation. Today, Vic has two blocked arteries and is on what is referred to as maintenance medication. The health professionals are not offering another by pass or angioplasty treatment at this time. So Vic has to basically take it easy. No running, jumping or chasing!!

Vic has written articles for such well-known and respected publications as: "World Radio", "PAARAgaphs", and various cycling magazines over the years. In fact, he is considered one of the senior writers of important material here at PAARAgaphs. Vic has told us that he likes to learn something new everyday and learn it so well that he can then explain it in layman's terms. Thank you, Vic.

Our Association is happy and proud that you are an active member of PAARA.

~by: Terry Finn. AF6TF.



PAARA PROJECT 2003

Terry Finn. AF6TF

Field Day Trailer Project (continued).

Under the masterful leadership of the PAARA property trustee, **Gerry Tucker, N6NV**, the first field day trailer project work party day got underway at 9 AM sharp on Saturday, March 15/03 at the trailer storage facility in Redwood City. In attendance were all of the important Club volunteers who have elected to make this project viable so that we have something to be proud of this Field Day.

It was a sunny and bright morning with no wind so it was a perfect morning to complete the repair evaluation of the trailer. It was determined that we still require a number of volunteers who may have specific skills to assist in the up-grading and maintenance of the Club's rather old, but useful field day trailer. As indicated earlier this year, we really need the help of not only regular Club members, or other hams, but also any interested party or friend of ham radio, as this project is rather large and will require a lot of hands on repair and maintenance. The more the merrier they say, plus we can probably complete what is required before Field Day in June if we work together.

It was determined during the initial inspection that both exterior doors will require the installation of two external hasp style locking hardware devices with key locks, rather than combination locks. The broken window in the rear door and the two other broken windows need to be replaced, possible with Lexan, rather than glass. A suggestion was discussed about whether or not the interior windows should be covered with tin foil for added protection from vandals and or further damage from the sun. All four tires were found to be so old that their size was not on the tires themselves (other than 15 inch) and they were on the older style of split rims which were used in the fifties for heavier vehicles. The tires were actually disintegrating along the sidewalls, although they all still hold air pressure. We definitely require a tire person to assist us with this part of the trailer service. We need a heavy-duty jack and either a 12-volt or gas powered air pressure compressor or possible a large, fully charged, portable air tank. Two of our Club members have indicated that they may be able to provide the correct sized used tires, however a real tire person may need to make the decision about the trailer wheels and tires.

The old style (antique) gas powered 2 and one half-kilowatt electrical generator that is mounted inside the trailer has to go. Therefore any Club member or volunteer can remove it and take it away, as we have decided to invest in a new generator that can be stored and transported in

the locked compartment already available inside the trailer. On that note, please be aware that the AC electrical wiring has to be inspected and tested. The external AC plug should be removed and replaced with something modern. The low voltage DC wiring must be inspected, replaced or repaired for the interior, clearance & running trailer lights. Gerry made a lot of headway in this area on March 15th by actually tracing out the low voltage wiring at the rear that operate the brake & tail lights.

We have the appropriate wire available and may obtain newer tail or clearance lights as the project moves forward. The three roof top air vents must be properly closed and sealed from the elements. We are anticipating cutting a large square hole in the rear of the trailer and fabricating a locking, swing up door. This will allow us to secure and transport the twenty-foot antenna tower that will reside and ride quite nicely inside the trailer. This modification will require some expertise from a volunteer. The interior still is wanting for some paint, carpet and possibly new shelves or storage cabinets. Come and see what this trailer needs and make your suggestions or bring your equipment donations, please. We need carpenters, carpet layers, electricians, low voltage technicians, painters, tire technicians and graphic artists. We really need you to assist on this Club Project.

The following is a preliminary list of further work days planned:

Saturday, **March 22/03.** 9 AM to noon.

Saturday, **April 05/03.** 9 AM to noon.

Saturday, **April 19/03.** 9 AM to noon.

There will be no work party on April 12 due to the flea market. Please bring your own tools and equipment. (We need a ladder) Coffee and doughnuts would be a nice touch for the workers. There are no restrooms, water or electricity at the trailer site. The PAARA trailer is parked in the rear RV parking area at Harbor Village, 3015 East Bayshore Road in Redwood City.

This Field Day Trailer Project is an officially recognized PAARA activity. We really want your assistance with this project.

See you all there !!!

~Terry Finn. AF6TF.



Join us for pre-meeting eyeball

QSO April 4th gab & gobble

Food will be served at 6:00 sharp, so guests will be on time for the PAARA meeting. Those arriving late will be responsible for their own order and bill.

6 pm— at Su Hong Restaurant
1039 El Camino Real

Menlo Park

—across from Kepler's Book Store—



Foothill Electronics Flea Market

Sponsored by ASVARO

The Association of Silicon Valley Amateur Radio Organizations

The electronics flea market (www.electronicfleamarket.com) is held on the second Saturday (pre-dawn) of each month, March through October. The market is located at Foothill College, just west of I-280 at the El Monte / Moody Road exit in Los Altos. Bring \$2 (in one-dollar bills) for the parking meter. **College parking and traffic regulations are vigorously enforced!**

Talk-in: W6ASH 145.27- (100Hz PL) or N6NFI 145.23- (100Hz PL)

2003 Schedule

<u>Date</u>	<u>Beneficiary Organization</u>
March 8	PAARA - Palo Alto Amateur Radio Association
April 12	SPARK – South Peninsula Amateur Radio Klub
May 10	SCCARA – Santa Clara County Amateur Radio Association
June 14	SPECS – Southern Peninsula Emergency Communications System
July 12	FARS – Foothills Amateur Radio Society
August 9	SVECS – Silicon Valley Emergency Communications System
September 13	WVARA – West Valley Amateur Radio Association
October 11	Palo Alto Chapter, American Red Cross



Directions to the Flea Market:

- Take I-280 to the El Monte / Moody Road exit in Los Altos
- Take El Monte Road West (the Moody Road side) to College Loop Road (the entrance to Foothill College)
- At the first intersection, turn right and then into the parking lot (the loop is one way at the intersection, do not turn left)
- Parking in the lot is \$2 (in one-dollar bills)
- To exit the College Campus, go around the loop and out on College Loop Road
- **College parking and traffic regulations are vigorously enforced!**

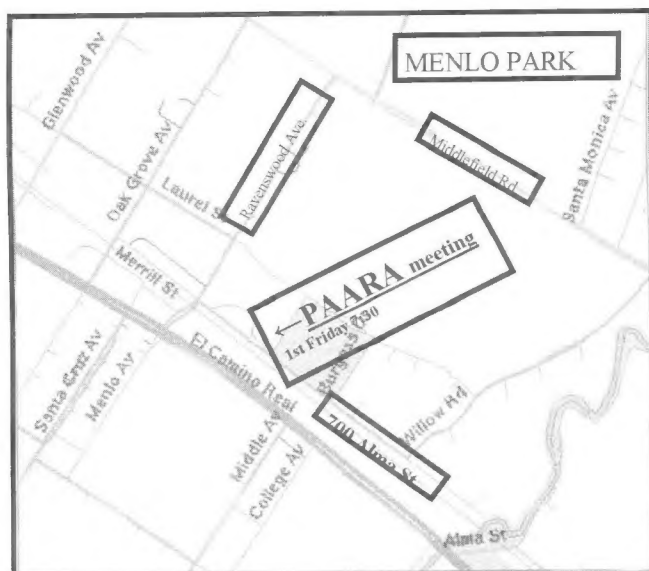
There is **no entrance fee** for buyers (bring \$2 for parking)

Refreshments sold by the beneficiary organization

Support your local non-profit electronics organization

More Information

Call on the SPECS repeater (145.27-, 100 Hz PL) or www.electronicfleamarket.com



Want and For Sale ads in
PAARAgaphs
are **FREE** to members

(Submit by e-mail or letter before the 15th of the month)

MADONNA'S BAIL BONDS



Ayudamos a la Comunidad Hispana



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SAN JOSE — **408-266-2245**

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PAARA Radio NET

every Monday evening

8:30 P.M., local time

on the

145.230 -600 MHz repeater

PL tone off

control operators

1st Mon KG6ILA, Pinkney Foster

2nd Mon N6NU, Andreas Junge

3rd Mon AD6FX, Jon Zweig

4th Mon AA6PA, Bill Rausch

5th Mon tba

PAARAgaphs Ad Rates

PAARAgaphs accepts paid advertisements from non-members.

(short personal ads remain free for members in good standing).

All ad rates listed are per issue only.

1. Not for profit ads by association members for ham-related items and wants. No cost for business card size ads (additional space at \$2.50 per business card size).

2. For Profit organizations and/or individuals: \$5-business card size, \$25-half page, \$50 full page or back cover.

These fees may be reduced or waived in exchange for a valuable consideration that is given to the Association or its general membership. Such consideration must be in addition to any existing arrangements with the association.

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